


```

LL      111111  88888888  VV      VV  EEEEEEEEE  CCCCCCCC  TTTTTTTTT  000000  000000  RRRRRRRR  RR
LL      111111  88888888  VV      VV  EEEEEEEEE  CCCCCCCC  TTTTTTTTT  000000  000000  RRRRRRRR  RR
LL      11      88      88  VV      VV  EE          CC          TT          00          00  RR          RR
LL      11      88      88  VV      VV  EE          CC          TT          00          00  RR          RR
LL      11      88      88  VV      VV  EE          CC          TT          00          00  RR          RR
LL      11      88      88  VV      VV  EE          CC          TT          00          00  RR          RR
LL      11      88888888  VV      VV  EEEEEEEE  CC          TT          00          00  RRRRRRRR  RR
LL      11      88888888  VV      VV  EEEEEEEE  CC          TT          00          00  RRRRRRRR  RR
LL      11      88      88  VV      VV  EE          CC          TT          00          00  RR      RR
LL      11      88      88  VV      VV  EE          CC          TT          00          00  RR      RR
LL      11      88      88  VV      VV  EE          CC          TT          00          00  RR      RR
LL      11      88      88  VV      VV  EE          CC          TT          00          00  RR      RR
LLLLLLLLLLLL  111111  88888888  VV      VV  EEEEEEEEE  CCCCCCCC  TTTTTTTTT  000000  000000  RR      RR
LLLLLLLLLLLL  111111  88888888  VV      VV  EEEEEEEEE  CCCCCCCC  TTTTTTTTT  000000  000000  RR      RR
.....
.....
.....
.....

LL      111111  SSSSSSSS
LL      111111  SSSSSSSS
LL      11      SS
LL      11      SS
LL      11      SS
LL      11      SS
LL      11      SSSSSS
LL      11      SSSSSS
LL      11      SS
LL      11      SS
LL      11      SS
LL      11      SS
LLLLLLLLLLLL  111111  SSSSSSSS
LLLLLLLLLLLL  111111  SSSSSSSS

```

(2) 60
(3) 132

DECLARATIONS
LIBRTL Vector


```
0000 1 .TITLE LIB$VECTOR - Entry vectors for LIBRTL.EXE
0000 2 .IDENT /1-011/ ; File: LIBVECTOR.MAR Edit:LEB1011
0000 3
0000 4
0000 5 *****
0000 6 *
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0000 23 * SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.
0000 24 *
0000 25 *
0000 26 *****
0000 27
0000 28
0000 29 ++
0000 30 FACILITY: Run-Time Library - General Utility Procedures
0000 31
0000 32 ABSTRACT:
0000 33
0000 34 This module contains the entry vector definitions for the
0000 35 VAX-11 Run-Time Library shareable image LIBRTL.EXE
0000 36
0000 37 ENVIRONMENT: User mode, AST Reentrant
0000 38
0000 39 AUTHOR: Steven B. Lionel, CREATION DATE: 28-October-1982
0000 40
0000 41 MODIFIED BY:
0000 42
0000 43 1-001 - Original. SBL 28-October-1982
0000 44 1-002 - Make FOR$CNV OUT_x entries separate - they were improperly declared
0000 45 as aliases of OT$$CVT_L_Tx routines. SBL 29-Nov-1982
0000 46 1-003 - Add LIB$GETxxI routines. SBL 19-Jan-1983
0000 47 1-004 - Add OT$$SRET_A_CVT_TAB_R1, OT$$SCVT_MUL and LIB$SIG_TO_STOP.
0000 48 FM 20-MAY-1983.
0000 49 1-005 - Add remaining LIB$, OT$$ and STR$ routines that were previously
0000 50 non-shared. LEB 23-May-1983.
0000 51 1-006 - Cleanup. LEB 24-May-1983.
0000 52 1-007 - Add OT$$CVT_L_TU, OT$$CVT_TU_L. SBL 26-May-1983
0000 53 1-008 - Add STR$MATCH_WILD and LIB$DAY OF WEEK. LEB 9-Jan-1984
0000 54 1-009 - Add LIB$FIND_IMAGE_SYMBOL, LIB$FIND_FILE_END and
0000 55 LIB$FILE_SCAN_END. LEB 25-Feb-1984
0000 56 1-010 - Add OT$$DIV_PKSHORT and OT$$DIV_PKLONG. DG 5-Mar-1984
0000 57 1-011 - Add LIB$CREATE_DIR. LEB 11-Apr-1984
```

LIB\$VECTOR
1-011

- Entry vectors for LIBRTL.EXE

L 1

15-SEP-1984 23:44:46 VAX/VMS Macro V04-00 Page 2
6-SEP-1984 11:12:03 [LIBRTL.SRC]LIBVECTOR.MAR;1 (1)

0000 58 ;--

```
0000 60      .SBTTL  DECLARATIONS
0000 61      :
0000 62      : LIBRARY MACRO CALLS:
0000 63      :
0000 64      : LIB$:LIBRTL.MLB required
0000 65      :
0000 66      : EXTERNAL DECLARATIONS:
0000 67      :
0000 68      : .DSABL  GBL                ; force all external symbols to be declared
0000 69      :
0000 70      : MACROS:
0000 71      :
0000 72      :
0000 73      :+
0000 74      : Macro to define an entry vector for a CALL entry point
0000 75      : -
0000 76      :
0000 77      : .MACRO  VCALL      NAME
0000 78      : .EXTRN      NAME
0000 79      : .ALIGN    QUAD
0000 80      : .TRANSFER      NAME
0000 81      : .MASK        NAME
0000 82      : JMP          NAME+2
0000 83      : .ENDM
0000 84      :
0000 85      :+
0000 86      : Macro to define an entry vector for a JSB entry point
0000 87      : -
0000 88      :
0000 89      : .MACRO  VJSB      NAME
0000 90      : .EXTRN      NAME
0000 91      : .ALIGN    QUAD
0000 92      : .TRANSFER      NAME
0000 93      : JMP          NAME
0000 94      : .BLKB        2
0000 95      : .ENDM
0000 96      :
0000 97      :+
0000 98      : Macro to define a table that is included in the vector.  The macros
0000 99      : invoked by VTAB are in LIB$:LIBRTL.MLB.
0000 100     : -
0000 101     :
0000 102     : .MACRO  VTAB      NAME
0000 103     : .ALIGN    QUAD
0000 104     : .TRANSFER      NAME
0000 105     NAME:: $'NAME
0000 106     : .ENDM
0000 107     :
0000 108     :+
0000 109     : Macro to define an alias for the next vectored entry point
0000 110     : -
0000 111     :
0000 112     : .MACRO  ALIAS      NAME
0000 113     : .TRANSFER      NAME
0000 114     : .ENDM
0000 115     :
0000 116     :
```


LIB\$VECTOR
1-011

- Entry vectors for LIBRTL.EXE
DECLARATIONS

N 1

15-SEP-1984 23:44:46
6-SEP-1984 11:12:03

VAX/VMS Macro V04-00
[LIBRTL.SRC]LIBVECTOR.MAR;1

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(2)

```
0000 117 :  
0000 118 : EQUATED SYMBOLS:  
0000 119 :  
0000 120 : NONE  
0000 121 :  
0000 122 : OWN STORAGE:  
0000 123 :  
0000 124 : NONE  
0000 125 :  
0000 126 : PSECT DECLARATIONS:  
0000 127 :  
00000000 128 : .PSECT $LIB$VECTOR PIC, USR, CON, REL, LCL, SHR, -  
0000 129 : EXE, RD, NOWRT, QUAD  
0000 130 :
```

```
0000 132      .SBTTL  LIBRTL Vector
0000 133
0000 134 :+
0000 135 : Define vectored entry points for the General Utility Procedures
0000 136 : by module in alphabetical order.
0000 137 :-
0000 138 : Any additions to this file should be reflected in
0000 139 : COM$;LIBRTLVEC.DAT. All new entry points must be appended to the end
0000 140 : of the list. NEVER change existing entries unless you are sure that
0000 141 : what you do won't break existing programs.
0000 142 :-
0000 143
0000 144 : Module LIB$AB_ASC_EBC
0000 145
0000 146      VTAB      LIB$AB_ASC_EBC
0100 147
0100 148 : Module LIB$AB_EBC_ASC
0100 149
0100 150      VTAB      LIB$AB_EBC_ASC
0200 151
0200 152 : Module LIB$AB_UPCASE
0200 153
0200 154      VTAB      LIB$AB_UPCASE
0300 155
0300 156 : Module LIB$ANALYZE_SDESC
0300 157
0300 158      VCALL      LIB$ANALYZE_SDESC
0308 159      VJSB      LIB$ANALYZE_SDESC_R2
0310 160
0310 161 : Module LIB$AST_IN_PROG
0310 162
0310 163      VCALL      LIB$AST_IN_PROG
0318 164
0318 165 : Module LIB$ATTACH
0318 166
0318 167      VCALL      LIB$ATTACH
0320 168
0320 169 : Module LIB$CLI_CALLBACK
0320 170
0320 171      VCALL      LIB$DELETE_LOGICAL
0328 172      VCALL      LIB$DELETE_SYMBOL
0330 173      VCALL      LIB$DISABLE_CTRL
0338 174      VCALL      LIB$ENABLE_CTRL
0340 175      VCALL      LIB$GET_SYMBOL
0348 176      VCALL      LIB$SET_LOGICAL
0350 177      VCALL      LIB$SET_SYMBOL
0358 178
0358 179 : Module LIB$CRC
0358 180
0358 181      VCALL      LIB$CRC
0360 182
0360 183 : Module LIB$CRC_TABLE
0360 184
0360 185      VCALL      LIB$CRC_TABLE
0368 186
0368 187 : Module LIB$CURRENCY
0368 188
```



```
0368 189          VCALL  LIB$CURRENCY
0370 190
0370 191 ; Module LIB$CVTDF
0370 192
0370 193          VCALL  LIB$CVTDF
0378 194
0378 195 ; Module LIB$CVT_ATB
0378 196
0378 197          VCALL  LIB$CVT_DTB
0380 198          VCALL  LIB$CVT-HTB
0388 199          VCALL  LIB$CVT_OTB
0390 200
0390 201 ; Module LIB$DEC_OVER
0390 202
0390 203          VCALL  LIB$DEC_OVER
0398 204
0398 205 ; Module LIB$DELETE_FILE
0398 206
0398 207          VCALL  LIB$DELETE_FILE
03A0 208
03A0 209 ; Module LIB$DIGIT_SEP
03A0 210
03A0 211          VCALL  LIB$DIGIT_SEP
03A8 212
03A8 213 ; Module LIB$EF
03A8 214
03A8 215          VCALL  LIB$FREE_EF
03B0 216          VCALL  LIB$GET_EF
03B8 217          VCALL  LIB$RESERVE_EF
03C0 218
03C0 219 ; Module LIB$ESTABLISH
03C0 220
03C0 221          VCALL  LIB$ESTABLISH
03C8 222
03C8 223 ; Module LIB$EXTV
03C8 224
03C8 225          VCALL  LIB$EXTV
03D0 226
03D0 227 ; Module LIB$EXTZV
03D0 228
03D0 229          VCALL  LIB$EXTZV
03D8 230
03D8 231 ; Module LIB$FFC
03D8 232
03D8 233          VCALL  LIB$FFC
03E0 234
03E0 235 ; Module LIB$FFS
03E0 236
03E0 237          VCALL  LIB$FFS
03E8 238
03E8 239 ; Module LIB$FILESCAN
03E8 240
03E8 241          VCALL  LIB$FILE_SCAN
03F0 242          VCALL  LIB$FIND_FILE
03F8 243
03F8 244 ; Module LIB$FIXUP_FLT
03F8 245
```

```
03F8 246          VCALL  LIB$FIXUP_FLT
0400 247
0400 248 ; Module LIB$FLT_UNDER
0400 249
0400 250          VCALL  LIB$FLT_UNDER
0408 251
0408 252 ; Module LIB$GET_INPUT
0408 253
0408 254          VCALL  LIB$GET_COMMAND
0410 255          VCALL  LIB$GET_INPUT
0418 256
0418 257 ; Module LIB$GET_OPCODE
0418 258
0418 259          VCALL  LIB$GET_OPCODE
0420 260
0420 261 ; Module LIB$INDEX
0420 262
0420 263          VCALL  LIB$INDEX
0428 264
0428 265 ; Module LIB$INSV
0428 266
0428 267          VCALL  LIB$INSV
0430 268
0430 269 ; Module LIB$INT_OVER
0430 270
0430 271          VCALL  LIB$INT_OVER
0438 272
0438 273 ; Module LIB$LOCC
0438 274
0438 275          VCALL  LIB$LOCC
0440 276
0440 277 ; Module LIB$LP_LINES
0440 278
0440 279          VCALL  LIB$LP_LINES
0448 280
0448 281 ; Module LIB$LUN
0448 282
0448 283          VCALL  LIB$FREE_LUN
0450 284          VCALL  LIB$GET_LUN
0458 285
0458 286 ; Module LIB$MATCHC
0458 287
0458 288          VCALL  LIB$MATCHC
0460 289
0460 290 ; Module LIB$MATCH_COND
0460 291
0460 292          VCALL  LIB$MATCH_COND
0468 293
0468 294 ; Module LIB$MOVTC
0468 295
0468 296          VCALL  LIB$MOVTC
0470 297
0470 298 ; Module LIB$MOVTUC
0470 299
0470 300          VCALL  LIB$MOVTUC
0478 301
0478 302 ; Module LIB$PUT_OUTPUT
```

```
0478 303          VCALL  LIB$PUT_OUTPUT
0478 304
0480 305          ; Module LIB$RADIX_POINT
0480 306
0480 307          VCALL  LIB$RADIX_POINT
0480 308
0488 309          ; Module LIB$RENAME_FILE
0488 310
0488 311          VCALL  LIB$RENAME_FILE
0488 312
0490 313          ; Module LIB$REVERT
0490 314
0490 315          VCALL  LIB$REVERT
0490 316
0498 317          ; Module LIB$SCANC
0498 318
0498 319          VCALL  LIB$SCANC
0498 320
04A0 321          ; Module LIB$SCOPY
04A0 322
04A0 323          VCALL  LIB$SCOPY_DXDX
04A8 324          VJSB   LIB$SCOPY_DXDX6
0480 325          VCALL  LIB$SCOPY_R_DX
0488 326          VJSB   LIB$SCOPY_R_DX6
04C0 327          VCALL  LIB$SFREET_DD
04C8 328          VJSB   LIB$SFREET1_DD6
04D0 329          VCALL  LIB$SFREEN_DD
04D8 330          VJSB   LIB$SFREEN_DD6
04E0 331          VCALL  LIB$SGET1_DD
04E8 332          VJSB   LIB$SGET1_DD_R6
04F0 333
04F0 334          ; Module LIB$SIGNAL
04F0 335
04F0 336          VCALL  LIB$SIGNAL
04F8 337          VCALL  LIB$STOP
0500 338
0500 339          ; Module LIB$SIG_TO_RET
0500 340
0500 341          VCALL  LIB$SIG_TO_RET
0508 342
0508 343          ; Module LIB$SKPC
0508 344
0508 345          VCALL  LIB$SKPC
0510 346
0510 347          ; Module LIB$SPANC
0510 348
0510 349          VCALL  LIB$SPANC
0518 350
0518 351          ; Module LIB$SPAWN
0518 352
0518 353          VCALL  LIB$SPAWN
0520 354
0520 355          ; Module LIB$STAT_VM
0520 356
0520 357          VCALL  LIB$SHOW_VM
0528 358          VCALL  LIB$STAT_VM
```



```
0530 360
0530 361 ; Module LIB$TPARSE
0530 362
0530 363         VCALL  LIB$TPARSE
0538 364
0538 365 ; Module LIB$TRA_ASC_EBC
0538 366
0538 367         VCALL  LIB$TRA_ASC_EBC
0540 368
0540 369 ; Module LIB$TRA_EBC_ASC
0540 370
0540 371         VCALL  LIB$TRA_EBC_ASC
0548 372
0548 373 ; Module LIB$VM
0548 374
0548 375         VCALL  LIB$FREE_VM
0550 376         VCALL  LIB$GET_VM
0558 377
0558 378 ; Module LIB$WAIT
0558 379
0558 380         VCALL  LIB$WAIT
0560 381
0560 382 ; Module OTS$$CVTDT
0560 383
0560 384         VJSB   OTS$$CVT_D_T_R8
0568 385         VJSB   OTS$$CVT_F_T_R8
0570 386
0570 387 ; Module OTS$$CVTRT
0570 388
0570 389         VJSB   OTS$$CVT_G_T_R8
0578 390         VJSB   OTS$$CVT_H_T_R8
0580 391
0580 392 ; Module OTS$CVTLT
0580 393
0580 394         VCALL  OTS$CVT_L_TB
0588 395         VCALL  OTS$CVT_L_TI
0590 396         VCALL  OTS$CVT_L_TL
0598 397         VCALL  OTS$CVT_L_TO
05A0 398         VCALL  OTS$CVT_L_TZ
05A8 399         ; See below for FOR$CNV_OUT_x alternate entries
05A8 400
05A8 401 ; Module OTS$CVTTF
05A8 402
05A8 403         VCALL  OTS$CVT_T_F
05B0 404
05B0 405 ; Module OTS$CVTTIL
05B0 406
05B0 407         ALIAS  FOR$CNV_IN_I
05B0 408         VCALL  OTS$CVT_TI_L
05B8 409
05B8 410 ; Module OTS$CVTTL
05B8 411
05B8 412         ALIAS  FOR$CNV_IN_L
05B8 413         VCALL  OTS$CVT_TL_L
05C0 414
05C0 415 ; Module OTS$CVTTOL
05C0 416
```

```
05C0 417 VCALL OTSS$CVT_TB_L
05C8 418 ALIAS FOR$CNV_IN_O
05C8 419 VCALL OTSS$CVT_TO_L
05D0 420 ALIAS FOR$CNV_IN_Z
05D0 421 VCALL OTSS$CVT_TZ_L
05D8 422
05D8 423 ; Module OTSS$CVTTR
05D8 424
05D8 425 ALIAS FOR$CNV_IN_DEFG
05D8 426 VCALL OTSS$CVT_T_D
05E0 427 VCALL OTSS$CVT_T_G
05E8 428 VCALL OTSS$CVT_T_H
05F0 429
05F0 430 ; Module OTSS$MOVE
05F0 431
05F0 432 VCALL OTSS$MOVE3
05F8 433 VJSB OTSS$MOVE3_R5
0600 434 VCALL OTSS$MOVE5
0608 435 VJSB OTSS$MOVE5_R5
0610 436
0610 437 ; Module OTSS$SCOPY
0610 438
0610 439 VCALL OTSS$SCOPY_DXDX
0618 440 VJSB OTSS$SCOPY_DXDX6
0620 441 VCALL OTSS$SCOPY_R_DX
0628 442 VJSB OTSS$SCOPY_R_DX6
0630 443 VCALL OTSS$SFREET_DD
0638 444 VJSB OTSS$SFREET1_DD6
0640 445 VCALL OTSS$SFREEN_DD
0648 446 VJSB OTSS$SFREEN_DD6
0650 447 VCALL OTSS$SGET1_DD
0658 448 VJSB OTSS$SGET1_DD_R6
0660 449
0660 450 ; Module STR$ANALYZE_SDESC
0660 451
0660 452 VCALL STR$ANALYZE_SDESC
0668 453 VJSB STR$ANALYZE_SDESC_R1
0670 454
0670 455 ; Module STR$APPEND
0670 456
0670 457 VCALL STR$APPEND
0678 458
0678 459 ; Module STR$COMPARE
0678 460
0678 461 VCALL STR$COMPARE
0680 462
0680 463 ; Module STR$COMPARE_CASE_BLIND
0680 464
0680 465 VCALL STR$CASE_BLIND_COMPARE
0688 466
0688 467 ; Module STR$COMPARE_EQ
0688 468
0688 469 VCALL STR$COMPARE_EQ
0690 470
0690 471 ; Module STR$CONCAT
0690 472
0690 473 VCALL STR$CONCAT
```

```
0698 474
0698 475 ; Module STR$COPY
0698 476
0698 477     VCALL STR$COPY_DX
06A0 478     VJSB STR$COPY_DX_R8
06A8 479     VCALL STR$COPY_R
06B0 480     VJSB STR$COPY_R_R8
06B8 481
06B8 482 ; Module STR$DUPL_CHAR
06B8 483
06B8 484     VCALL STR$DUPL_CHAR
06C0 485     VJSB STR$DUPL_CHARR8
06C8 486
06C8 487 ; Module STR$FIND_FIRST
06C8 488
06C8 489     VCALL STR$FIND_FIRST_IN_SET
06D0 490     VCALL STR$FIND_FIRST_NOT_IN_SET
06D8 491
06D8 492 ; Module STR$FIND_FIRST_SUBSTRING
06D8 493
06D8 494     VCALL STR$FIND_FIRST_SUBSTRING
06E0 495
06E0 496 ; Module STR$GET_FREE
06E0 497
06E0 498     VCALL STR$FREE1_DX
06E8 499     VJSB STR$FREE1_DX_R4
06F0 500     VCALL STR$GET1_DX
06F8 501     VJSB STR$GET1_DX_R4
0700 502
0700 503 ; Module STR$LEFT
0700 504
0700 505     VCALL STR$LEFT
0708 506     VJSB STR$LEFT_R8
0710 507
0710 508 ; Module STR$LEN_EXTR
0710 509
0710 510     VCALL STR$LEN_EXTR
0718 511     VJSB STR$LEN_EXTR_R8
0720 512
0720 513 ; Module STR$POSITION
0720 514
0720 515     VCALL STR$POSITION
0728 516     VJSB STR$POSITION_R6
0730 517
0730 518 ; Module STR$POS_EXTR
0730 519
0730 520     VCALL STR$POS_EXTR
0738 521     VJSB STR$POS_EXTR_R8
0740 522
0740 523 ; Module STR$PREFIX
0740 524
0740 525     VCALL STR$PREFIX
0748 526
0748 527 ; Module STR$REPLACE
0748 528
0748 529     VCALL STR$REPLACE
0750 530     VJSB STR$REPLACE_R8
```



```
0758 531 ; Module STR$RIGHT
0758 532
0758 533
0758 534         VCALL  STR$RIGHT
0760 535         VJSB   STR$RIGHT_R8
0768 536
0768 537 ; Module STR$TRANSLATE
0768 538
0768 539         VCALL  STR$TRANSLATE
0770 540
0770 541 ; Module STR$TRIM
0770 542
0770 543         VCALL  STR$TRIM
0778 544
0778 545 ; Module STR$UPCASE
0778 546
0778 547         VCALL  STR$UPCASE
0780 548
0780 549 :+
0780 550 : End of initial LIBRTL vector.  All subsequent additions must be made
0780 551 : after this point.
0780 552 :-
0780 553
0780 554 ; Module OTS$CVTLT (continued)
0780 555
0780 556         VCALL  FOR$CNV_OUT_I  : Use OTS$CVT_L_TI instead
0788 557         VCALL  FOR$CNV_OUT_L  : Use OTS$CVT_L_TL instead
0790 558         VCALL  FOR$CNV_OUT_O  : Use OTS$CVT_L_TO instead
0798 559         VCALL  FOR$CNV_OUT_Z  : Use OTS$CVT_L_TZ instead
07A0 560
07A0 561 ; Module LIB$GETDVI
07A0 562
07A0 563         VCALL  LIB$GETDVI
07A8 564
07A8 565 ; Module LIB$GETJPI
07A8 566
07A8 567         VCALL  LIB$GETJPI
07B0 568
07B0 569 ; Module LIB$GETSYI
07B0 570
07B0 571         VCALL  LIB$GETSYI
07B8 572
07B8 573 ; Module LIB$SIGSTOP
07B8 574
07B8 575         VCALL  LIB$SIG_TO_STOP
07C0 576
07C0 577 ; Module OTS$SCVTRT
07C0 578
07C0 579         VJSB   OTS$$RET_A_CVT_TAB_R1
07C8 580         VJSB   OTS$SCVT_MOL
07D0 581
07D0 582 :+
07D0 583 : Add all the remaining LIB$, STR$ and OTS$ modules that were previously
07D0 584 : non-shared.
07D0 585 :-
07D0 586 ; Module LIB$ADDX
07D0 587
```

07D0	588	VCALL	LIB\$ADDX
07D8	589	VCALL	LIB\$SUBX
07E0	590		
07E0	591	:	Module LIB\$ASN_WTH_MBX
07E0	592		
07E0	593	VCALL	LIB\$ASN_WTH_MBX
07E8	594		
07E8	595	:	Module LIB\$BBCCI
07E8	596		
07E8	597	VCALL	LIB\$BBCCI
07F0	598		
07F0	599	:	Module LIB\$BBSSI
07F0	600		
07F0	601	VCALL	LIB\$BBSSI
07F8	602		
07F8	603	:	Module LIB\$BINARY_TREE
07F8	604		
07F8	605	VCALL	LIB\$INSERT_TREE
0800	606	VCALL	LIB\$LOOKUP_TREE
0808	607	VCALL	LIB\$TRAVERSE_TREE
0810	608		
0810	609	:	Module LIB\$CALLG
0810	610		
0810	611	VCALL	LIB\$CALLG
0818	612		
0818	613	:	Module LIB\$CHAR
0818	614		
0818	615	VCALL	LIB\$CHAR
0820	616		
0820	617	:	Module LIB\$COMMON
0820	618		
0820	619	VCALL	LIB\$GET_COMMON
0828	620	VCALL	LIB\$PUT_COMMON
0830	621		
0830	622	:	Module LIB\$DATE_TIME
0830	623		
0830	624	VCALL	LIB\$DATE_TIME
0838	625		
0838	626	:	Module LIB\$DAY
0838	627		
0838	628	VCALL	LIB\$DAY
0840	629		
0840	630	:	Module LIB\$DO_COMMAND
0840	631		
0840	632	VCALL	LIB\$DO_COMMAND
0848	633		
0848	634	:	Module LIB\$EDIV
0848	635		
0848	636	VCALL	LIB\$EDIV
0850	637		
0850	638	:	Module LIB\$EMODD
0850	639		
0850	640	VCALL	LIB\$EMODD
0858	641		
0858	642	:	Module LIB\$EMODF
0858	643		
0858	644	VCALL	LIB\$EMODF

0860	645	
0860	646	: Module LIB\$EMODG
0860	647	
0860	648	VCALL LIB\$EMODG
0868	649	
0868	650	: Module LIB\$EMODH
0868	651	
0868	652	VCALL LIB\$EMODH
0870	653	
0870	654	: Module LIB\$EMUL
0870	655	
0870	656	VCALL LIB\$EMUL
0878	657	
0878	658	: Module LIB\$GET_FOREIGN
0878	659	
0878	660	VCALL LIB\$GET_FOREIGN
0880	661	
0880	662	: Module LIB\$ICHAR
0880	663	
0880	664	VCALL LIB\$ICHAR
0888	665	
0888	666	: Module LIB\$INSQHI
0888	667	
0888	668	VCALL LIB\$INSQHI
0890	669	
0890	670	: Module LIB\$INSQTI
0890	671	
0890	672	VCALL LIB\$INSQTI
0898	673	
0898	674	: Module LIB\$LEN
0898	675	
0898	676	VCALL LIB\$LEN
08A0	677	
08A0	678	: Module LIB\$LOOKUP_KEY
08A0	679	
08A0	680	VCALL LIB\$LOOKUP_KEY
08A8	681	
08A8	682	: Module LIB\$MOVCS
08A8	683	
08A8	684	VCALL LIB\$MOVCS
08B0	685	
08B0	686	: Module LIB\$MOVCS
08B0	687	
08B0	688	VCALL LIB\$MOVCS
08B8	689	
08B8	690	: Module LIB\$POLYD
08B8	691	
08B8	692	VCALL LIB\$POLYD
08C0	693	
08C0	694	: Module LIB\$POLYF
08C0	695	
08C0	696	VCALL LIB\$POLYF
08C8	697	
08C8	698	: Module LIB\$POLYG
08C8	699	
08C8	700	VCALL LIB\$POLYG
08D0	701	


```
08D0 702 : Module LIB$POLYH
08D0 703
08D0 704      VCALL  LIB$POLYH
08D8 705
08D8 706 : Module LIB$REMQHI
08D8 707
08D8 708      VCALL  LIB$REMQHI
08E0 709
08E0 710 : Module LIB$REMQTI
08E0 711
08E0 712      VCALL  LIB$REMQTI
08E8 713
08E8 714 : Module LIB$RUN_PROGRAM
08E8 715
08E8 716      VCALL  LIB$RUN_PROGRAM
08F0 717
08F0 718 : Module LIB$SYS_ASCTIM
08F0 719
08F0 720      VCALL  LIB$SYS_ASCTIM
08F8 721
08F8 722 : Module LIB$SYS_FAO
08F8 723
08F8 724      VCALL  LIB$SYS_FAO
0900 725
0900 726 : Module LIB$SYS_FAOL
0900 727
0900 728      VCALL  LIB$SYS_FAOL
0908 729
0908 730 : Module LIB$SYS_GETMSG
0908 731
0908 732      VCALL  LIB$SYS_GETMSG
0910 733
0910 734 : Module LIB$SYS_TRNLOG
0910 735
0910 736      VCALL  LIB$SYS_TRNLOG
0918 737
0918 738 : Module LIB$TIMER
0918 739
0918 740      VCALL  LIB$FREE_TIMER
0920 741      VCALL  LIB$INIT_TIMER
0928 742      VCALL  LIB$SHOW_TIMER
0930 743      VCALL  LIB$STAT_TIMER
0938 744
0938 745 : Module LIB$TRIM_FILESPEC
0938 746
0938 747      VCALL  LIB$TRIM_FILESPEC
0940 748
0940 749 : Module OT$CNVOUT
0940 750
0940 751      ALIAS  COB$CNVOUT
0940 752      VCALL  OT$CNVOUT
0948 753      VCALL  OT$CNVOUT_G
0950 754      VCALL  OT$CNVOUT_H
0958 755
0958 756 : Module OT$CVTDP_R9
0958 757
0958 758      ALIAS  COB$CVTDP_R9
```

```
0958 759      VJSB      OTS$CVTDP_R9
0960 760
0960 761 ; Module OTS$CVTFP_R9
0960 762
0960 763      ALIAS      COB$CVTFP_R9
0960 764      VJSB      OTS$CVTFP_R9
0968 765
0968 766 ; Module OTS$CVTGP_R9
0968 767
0968 768      VJSB      OTS$CVTGP_R9
0970 769
0970 770 ; Module OTS$CVTHP_R9
0970 771
0970 772      VJSB      OTS$CVTHP_R9
0978 773
0978 774 ; Module OTS$CVTPD_R9
0978 775
0978 776      ALIAS      COB$CVTPD_R9
0978 777      VJSB      OTS$CVTPD_R9
0980 778
0980 779 ; Module OTS$CVTPF_R9
0980 780
0980 781      ALIAS      COB$CVTPF_R9
0980 782      VJSB      OTS$CVTPF_R9
0988 783
0988 784 ; Module OTS$CVTPG_R9
0988 785
0988 786      VJSB      OTS$CVTPG_R9
0990 787
0990 788 ; Module OTS$CVTPH_R9
0990 789
0990 790      VJSB      OTS$CVTPH_R9
0998 791
0998 792 ; Module OTS$CVTRDP_R9
0998 793
0998 794      ALIAS      COB$CVTRDP_R9
0998 795      VJSB      OTS$CVTRDP_R9
09A0 796
09A0 797 ; Module OTS$CVTRFP_R9
09A0 798
09A0 799      ALIAS      COB$CVTRFP_R9
09A0 800      VJSB      OTS$CVTRFP_R9
09A8 801
09A8 802 ; Module OTS$CVTRGP_R9
09A8 803
09A8 804      VJSB      OTS$CVTRGP_R9
09B0 805
09B0 806 ; Module OTS$CVTRHP_R9
09B0 807
09B0 808      VJSB      OTS$CVTRHP_R9
09B8 809
09B8 810 ; Module STR$ARITH
09B8 811
09B8 812      VCALL      STR$ADD
09C0 813      VCALL      STR$DIVIDE
09C8 814      VCALL      STR$MUL
09D0 815      VCALL      STR$RECIP
```

```
09D8 816          VCALL  STR$RCUND
09E0 817
09E0 818 ; Module OTSS$CVTLT
09E0 819
09E0 820          VCALL  OTSS$CVT_L_TU
09E8 821
09E8 822 ; Module OTSS$CVTTIL
09E8 823
09E8 824          VCALL  OTSS$CVT_TU_L
09F0 825
09F0 826
09F0 827 ; Module STR$MATCH
09F0 828
09F0 829          VCALL  STR$MATCH_WILD
09F8 830
09F8 831
09F8 832 ; Module LIB$DAY_OF_WEEK
09F8 833
09F8 834          VCALL  LIB$DAY_OF_WEEK
0A00 835
0A00 836 ; Module LIB$FILESCAN
0A00 837
0A00 838          VCALL  LIB$FIND_FILE_END
0A08 839          VCALL  LIB$FILE_SCAN_END
0A10 840
0A10 841 ; Module LIB$FIND_IMAGE
0A10 842
0A10 843          VCALL  LIB$FIND_IMAGE_SYMBOL
0A18 844
0A18 845 ; Module OTSS$DIV_PKSHORT
0A18 846
0A18 847          VCALL  OTSS$DIV_PKSHORT
0A20 848
0A20 849 ; Module OTSS$DIV_PK_LONG
0A20 850
0A20 851          VCALL  OTSS$DIV_PK_LONG
0A28 852
0A28 853 ; Module LIB$CREATE_DIR
0A28 854
0A28 855          VCALL  LIB$CREATE_DIR
0A30 856
0A30 857          .END
```

; End of module LIB\$VECTOR

LIB\$VECTOR
Symbol table

- Entry vectors for LIBRTL.EXE

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FOR\$CNV_OUT_I	*****	X	01	LIB\$FREE_VM	*****	X	01
FOR\$CNV_OUT_L	*****	X	01	LIB\$GETDVI	*****	X	01
FOR\$CNV_OUT_O	*****	X	01	LIB\$GETJPI	*****	X	01
FOR\$CNV_OUT_Z	*****	X	01	LIB\$GETSYI	*****	X	01
LIB\$AB_ASC_EBC	00000000	RG	01	LIB\$GET_COMMAND	*****	X	01
LIB\$AB_EBC_ASC	00000100	RG	01	LIB\$GET_COMMON	*****	X	01
LIB\$AB_UPCASE	00000200	RG	01	LIB\$GET_EF	*****	X	01
LIB\$ADDR	*****	X	01	LIB\$GET_FOREIGN	*****	X	01
LIB\$ANALYZE_SDESC	*****	X	01	LIB\$GET_INPUT	*****	X	01
LIB\$ANALYZE_SDESC_R2	*****	X	01	LIB\$GET_LUN	*****	X	01
LIB\$ASN_WTH_MBX	*****	X	01	LIB\$GET_OPCODE	*****	X	01
LIB\$AST_IN_PROG	*****	X	01	LIB\$GET_SYMBOL	*****	X	01
LIB\$ATTACH	*****	X	01	LIB\$GET_VM	*****	X	01
LIB\$BBCCI	*****	X	01	LIB\$ICHAR	*****	X	01
LIB\$BBSSI	*****	X	01	LIB\$INDEX	*****	X	01
LIB\$CALLG	*****	X	01	LIB\$INIT_TIMER	*****	X	01
LIB\$CHAR	*****	X	01	LIB\$INSERT_TREE	*****	X	01
LIB\$CRC	*****	X	01	LIB\$INSQHI	*****	X	01
LIB\$CRC_TABLE	*****	X	01	LIB\$INSQTI	*****	X	01
LIB\$CREATE_DIR	*****	X	01	LIB\$INSV	*****	X	01
LIB\$CURRENCY	*****	X	01	LIB\$INT_OVER	*****	X	01
LIB\$CVTDF	*****	X	01	LIB\$LEN	*****	X	01
LIB\$CVT_DTB	*****	X	01	LIB\$LOCC	*****	X	01
LIB\$CVT-HTB	*****	X	01	LIB\$LOOKUP_KEY	*****	X	01
LIB\$CVT-OTB	*****	X	01	LIB\$LOOKUP_TREE	*****	X	01
LIB\$DATE_TIME	*****	X	01	LIB\$LP_LINES	*****	X	01
LIB\$DAY	*****	X	01	LIB\$MATCHC	*****	X	01
LIB\$DAY_OF_WEEK	*****	X	01	LIB\$MATCH_COND	*****	X	01
LIB\$DEC_OVER	*****	X	01	LIB\$MOVCS	*****	X	01
LIB\$DELETE_FILE	*****	X	01	LIB\$MOVCS	*****	X	01
LIB\$DELETE-LOGICAL	*****	X	01	LIB\$MOVTC	*****	X	01
LIB\$DELETE_SYMBOL	*****	X	01	LIB\$MOVTUC	*****	X	01
LIB\$DIGIT_SEP	*****	X	01	LIB\$POLYD	*****	X	01
LIB\$DISABLE_CTRL	*****	X	01	LIB\$POLYF	*****	X	01
LIB\$DO_COMMAND	*****	X	01	LIB\$POLYG	*****	X	01
LIB\$EDIV	*****	X	01	LIB\$POLYH	*****	X	01
LIB\$EMODD	*****	X	01	LIB\$PUT_COMMON	*****	X	01
LIB\$EMODF	*****	X	01	LIB\$PUT_OUTPUT	*****	X	01
LIB\$EMODG	*****	X	01	LIB\$RADIX_POINT	*****	X	01
LIB\$EMODH	*****	X	01	LIB\$REMQHT	*****	X	01
LIB\$EMUL	*****	X	01	LIB\$REMQTI	*****	X	01
LIB\$ENABLE_CTRL	*****	X	01	LIB\$RENAME_FILE	*****	X	01
LIB\$ESTABLISH	*****	X	01	LIB\$RESERVE_EF	*****	X	01
LIB\$EXTV	*****	X	01	LIB\$REVERT	*****	X	01
LIB\$EXTZV	*****	X	01	LIB\$RUN_PROGRAM	*****	X	01
LIB\$FFC	*****	X	01	LIB\$SCANC	*****	X	01
LIB\$FFS	*****	X	01	LIB\$SCOPY_DXDX	*****	X	01
LIB\$FILE_SCAN	*****	X	01	LIB\$SCOPY_DXDX6	*****	X	01
LIB\$FILE_SCAN_END	*****	X	01	LIB\$SCOPY-R_DX	*****	X	01
LIB\$FIND_FILE	*****	X	01	LIB\$SCOPY-R_DX6	*****	X	01
LIB\$FIND_FILE_END	*****	X	01	LIB\$SET_LOGICAL	*****	X	01
LIB\$FIND_IMAGE_SYMBOL	*****	X	01	LIB\$SET_SYMBOL	*****	X	01
LIB\$FIXUP_FLT	*****	X	01	LIB\$FREE1_DD	*****	X	01
LIB\$FLT_UNDER	*****	X	01	LIB\$FREE1-DD6	*****	X	01
LIB\$FREE_EF	*****	X	01	LIB\$FREEDD	*****	X	01
LIB\$FREE_LUN	*****	X	01	LIB\$FREEDD6	*****	X	01
LIB\$FREE_TIMER	*****	X	01	LIB\$SET1_DD	*****	X	01

LIB\$VECTOR
Symbol table

- Entry vectors for LIBRTL.EXE

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LIB\$GET1_DD_R6	*****	X	01	OT\$SCVT-T_D	*****	X	01
LIB\$SHOW_TIMER	*****	X	01	OT\$SCVT-T_F	*****	X	01
LIB\$SHOW_VM	*****	X	01	OT\$SCVT-T_G	*****	X	01
LIB\$SIGNAL	*****	X	01	OT\$SCVT-T_H	*****	X	01
LIB\$SIG_TO_RET	*****	X	01	OT\$SDIV-PKSHORT	*****	X	01
LIB\$SIG_TO_STOP	*****	X	01	OT\$SDIV-PK_LONG	*****	X	01
LIB\$SKPC	*****	X	01	OT\$SMOVE3	*****	X	01
LIB\$SPANC	*****	X	01	OT\$SMOVE3_R5	*****	X	01
LIB\$SPAWN	*****	X	01	OT\$SMOVE5	*****	X	01
LIB\$STAT_TIMER	*****	X	01	OT\$SMOVE5_R5	*****	X	01
LIB\$STAT_VM	*****	X	01	OT\$SSCOPY-DXD	*****	X	01
LIB\$STOP	*****	X	01	OT\$SSCOPY-DXD6	*****	X	01
LIB\$SUBX	*****	X	01	OT\$SSCOPY-R_DX	*****	X	01
LIB\$SYS_ASCTIM	*****	X	01	OT\$SSCOPY-R_DX6	*****	X	01
LIB\$SYS_FA0	*****	X	01	OT\$SSFREET_DD	*****	X	01
LIB\$SYS_FAOL	*****	X	01	OT\$SSFREET1_DD6	*****	X	01
LIB\$SYS_GETMSG	*****	X	01	OT\$SSFREEN_DD	*****	X	01
LIB\$SYS_TRNLOG	*****	X	01	OT\$SSFREEN_DD6	*****	X	01
LIB\$PARSE	*****	X	01	OT\$SSGET1_DD	*****	X	01
LIB\$TRAVERSE_TREE	*****	X	01	OT\$SSGET1_DD_R6	*****	X	01
LIB\$TRA_ASC_EBC	*****	X	01	STR\$ADD	*****	X	01
LIB\$TRA_EBC_ASC	*****	X	01	STR\$ANALYZE_SDESC	*****	X	01
LIB\$TRIM_FICESPEC	*****	X	01	STR\$ANALYZE_SDESC_R1	*****	X	01
LIB\$WAIT	*****	X	01	STR\$APPEND	*****	X	01
OT\$SCVT-D-T_R8	*****	X	01	STR\$CASE_BLIND_COMPARE	*****	X	01
OT\$SCVT-F-T_R8	*****	X	01	STR\$COMPARE	*****	X	01
OT\$SCVT-G-T_R8	*****	X	01	STR\$COMPARE_EQ	*****	X	01
OT\$SCVT-H-T_R8	*****	X	01	STR\$CONCAT	*****	X	01
OT\$SCVT_MOL	*****	X	01	STR\$COPY_DX	*****	X	01
OT\$SRET_A_CVT_TAB_R1	*****	X	01	STR\$COPY_DX_R8	*****	X	01
OT\$SCNVOUT	*****	X	01	STR\$COPY_R	*****	X	01
OT\$SCNVOUT_G	*****	X	01	STR\$COPY_R_R8	*****	X	01
OT\$SCNVOUT_H	*****	X	01	STR\$DIVIDE	*****	X	01
OT\$SCVTDP_R9	*****	X	01	STR\$DUPL_CHAR	*****	X	01
OT\$SCVTFP_R9	*****	X	01	STR\$DUPL_CHARR8	*****	X	01
OT\$SCVTGP_R9	*****	X	01	STR\$FIND-FIRST_IN_SET	*****	X	01
OT\$SCVTHP_R9	*****	X	01	STR\$FIND-FIRST_NOT_IN_SET	*****	X	01
OT\$SCVTPD_R9	*****	X	01	STR\$FIND-FIRST_SUBSTRING	*****	X	01
OT\$SCVTPF_R9	*****	X	01	STR\$FREET_DX	*****	X	01
OT\$SCVTPG_R9	*****	X	01	STR\$FREET1_DX_R4	*****	X	01
OT\$SCVTPH_R9	*****	X	01	STR\$GET1_DX	*****	X	01
OT\$SCVTRDP_R9	*****	X	01	STR\$GET1_DX_R4	*****	X	01
OT\$SCVTRFP_R9	*****	X	01	STR\$LEFT	*****	X	01
OT\$SCVTRGP_R9	*****	X	01	STR\$LEFT_R8	*****	X	01
OT\$SCVTRHP_R9	*****	X	01	STR\$LEN_EXTR	*****	X	01
OT\$SCVT-L-T8	*****	X	01	STR\$LEN_EXTR_R8	*****	X	01
OT\$SCVT-L-T1	*****	X	01	STR\$MATCH_WICD	*****	X	01
OT\$SCVT-L-TL	*****	X	01	STR\$MUL	*****	X	01
OT\$SCVT-L-TO	*****	X	01	STR\$POSITION	*****	X	01
OT\$SCVT-L-TU	*****	X	01	STR\$POSITION_R6	*****	X	01
OT\$SCVT-L-TZ	*****	X	01	STR\$POS_EXTR	*****	X	01
OT\$SCVT-TB-L	*****	X	01	STR\$POS_EXTR_R8	*****	X	01
OT\$SCVT-TI-L	*****	X	01	STR\$PREFIX	*****	X	01
OT\$SCVT-TL-L	*****	X	01	STR\$RECIP	*****	X	01
OT\$SCVT-TO-L	*****	X	01	STR\$REPLACE	*****	X	01
OT\$SCVT-TU-L	*****	X	01	STR\$REPLACE_R8	*****	X	01
OT\$SCVT-TZ-L	*****	X	01	STR\$RIGHT	*****	X	01

LIB\$VECTOR
Symbol table

- Entry vectors for LIBRTL.EXE

D 3

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[LIBRTL.SRC]LIBVECTOR.MAR;1

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STR\$RIGHT_RB
STR\$ROUND
STR\$TRANSLATE
STR\$TRIM
STR\$UPCASE

```
***** X 01
***** X 01
***** X 01
***** X 01
***** X 01
```

! Psect synopsis !

PSECT name

Allocation

PSECT No.

Attributes

ABS
\$LIB\$VECTOR

```
00000000 ( 0.) 00 ( 0.) NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
00000A30 (2608.) 01 ( 1.) PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC QUAD
```

! Performance indicators !

Phase	Page faults	CPU Time	Elapsed Time
Initialization	36	00:00:00.08	00:00:00.88
Command processing	154	00:00:00.35	00:00:03.31
Pass 1	209	00:00:04.74	00:00:16.40
Symbol table sort	0	00:00:00.20	00:00:00.88
Pass 2	149	00:00:01.62	00:00:07.35
Symbol table output	27	00:00:00.11	00:00:00.44
Psect synopsis output	2	00:00:00.01	00:00:00.01
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	579	00:00:07.11	00:00:29.30

The working set limit was 1350 pages.

40821 bytes (80 pages) of virtual memory were used to buffer the intermediate code.

There were 20 pages of symbol table space allocated to hold 234 non-local and 0 local symbols.

857 source lines were read in Pass 1, producing 45 object records in Pass 2.

13 pages of virtual memory were used to define 7 macros.

! Macro library statistics !

Macro library name

Macros defined

-\$255\$DUA28:[LIBRTL.OBJ]LIBRTL.MLB;1

3

-\$255\$DUA28:[SYSLIB]STARLET.MLB;2

0

TOTALS (all libraries)

3

87 GETS were required to define 3 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/LIS=LIS\$:LIBVECTOR/OBJ=OBJ\$:LIBVECTOR MSRC\$:LIBVECTOR/UPDATE=(ENH\$:LIBVECTOR)+LIB\$:LIBRTL/LIB

0211 AH-BT13A-SE
VAX/VMS V4.0

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